Project Level Application		Step 1: Select Green Road Theme(s) and project characteristics (Note: Clear all checkboxes in both Step 1 and 2, and select 'All' in Degree of impact before making selections)	1 C02		3 W&L □	4 Pol	5 QoL □	6 Bio	7 Dis □	8 Mat	9 Inc	Con	11 12 Saf Aff		Step :		actor(s) al	igning wit	h the curi	rent conditi	ons or polici	es				
			Geography and Climate	Low	Mountaine  u-Volume		Par	Flat  ☑  ved highw	ays	Ari	xpressed h	Tropi		Pacific Isla			Improve Modified Policy De	ed Design d Tenderi	Standards	5			Public Aw Collabora	vareness and E tive Partnersh s for Green Ro	nips	
			Standard of road  Road project stage		Planning	g		<ul><li>☑</li><li>Design</li><li>☐</li></ul>		Constr	ruction/Im	nplementa	ation	☐ Maintena	ance		Environr Regulato Improve	ory Frame	works	s			Materials Application			
			Degree of impact		Incremen O	tal	ı	Progressive O	e	Tran	nsformativ O	ve		All												
G	reen Road Practices found		83	GR obj	jectives	served:	• Core	contribu	itions O	Second	ary cont	tributio	ns						/	/	/	Enab	oling factors		/s	
																an si	andards aring P	ocedures nent	Standar	de meworks	ning system	as and Education	creenings Green Ro	ds available Resou	Men Technologies	Sams
Green Road Theme  1. Decarbonization	Intervention Area 1.1. Road Network Planning and Road Transport		Practice Name Facilitate the use of fuel-efficient vehicles	1 C02	2 Res	3 W&L	4 Pol	5 QoL	6 Bio	7 Dis	8 Mat	9 Inc			12 Aff	proved Desse	ned Tento Policy D	Sevelol Environ	Regulato	AV Fro	Public Awar	Collaborative .	dernates for Supply syl	ern kontration	Connection	
1. Decarbonization	Management  1.1. Road Network Planning and Road Transport		Introduce electric vehicles (EVs)	•										0												
1. Decarbonization	Management  1.1. Road Network Planning and Road Transport	1.1.8	Low carbon road network planning and alignment	•			0																			
1. Decarbonization	Management  1.1. Road Network Planning and Road Transport	1.1.9	Avoiding roads in peatlands to minimize methane and CO2	•			0	0																		
1. Decarbonization	Management  1.2. Design of roads and road aplliencies	1.2.1	emissions  Low carbon road specifications			0																				
1. Decarbonization	1.2. Design of roads and road aplliencies	1.2.2	Using carbon sequestering road material (olivine)	•							0															
1. Decarbonization	1.4. Vegetative measures to sequester CO2	1.4.1	Roadside tree planting for sequestering CO2				0																			
2. Climate Resilience	2.1. Resilient routing/ avoiding vulnerable areas	2.1.1	Moving roads out of channel migration zones	•			0	0	0			0		0												
2. Climate Resilience	2.1. Resilient routing/ avoiding vulnerable areas	2.1.2	Avoid unstable and wet areas			0																				
2. Climate Resilience	2.3. Increased Stabilization of road sides	2.3.1	Complete ground cover in disturbed areas		•					0																
Climate Resilience	2.3. Increased Stabilization of road sides	2.3.5	Armoring the roadway driving surface		•	0																				
Climate Resilience	2.3. Increased Stabilization of road sides		Stabilization of unstable cut and fill slopes		•						0															
Climate Resilience	2.4. Enhance Climate Resilience of roads and bridges	2.4.1	Need for best engineering practices for climate resilience		•	0																				
Climate Resilience	2.4. Enhance Climate Resilience of roads and bridges				•						0															
Climate Resilience	2.5. Enhance climate resilience of roads in permafrost				•																					
Climate Resilience	regions  2.6. Nature-based Solutions for enhanced climate		Promoting Nature-based Solutions for roads		•						0					L							_	█.		
Climate Resilience	resilience of roads  2.8. Resilient road maintenance		Risk-informed and routine road maintenance		•	0		0	0																	
Water and Land	3.1. Water harvesting and run-off storage		Floodwater spreaders along road surfaces		•						0															
Management  3. Water and Land	3.1. Water harvesting and run-off storage		Directing water to retain ponds/ditches at the roadside		0	•			0	0		0			0											
Management  3. Water and Land	3.1. Water harvesting and run-off storage		Flow diversion from culverts and road drainage			•	0		0	0		0														
Management  3. Water and Land	3.1. Water harvesting and run-off storage		Infiltration structures fed from road drainage		0	•	0		0	0		0														
Management  3. Water and Land	3.1. Water harvesting and run-off storage		Surface storage fed from road drainage (repurposed borrow			•	0	0	0	0		0														
Management  3. Water and Land	3.1. Water harvesting and run-off storage		pits, ponds and cisterns)  Using roads as reservoir embankments		0	•	0		0		0															
Management  3. Water and Land	3.2. Agricultural Water management		Cascading irrigation fed from road drainage			•	0		0	0		0														
Management  3. Water and Land	3.2. Agricultural Water management		Connecting road drainage cuts to farm trenches		0	•	0		0	0		0														
Management						•	0		0	0		0														
Water and Land     Management     Water and Land	3.2. Agricultural Water management		Controlled (gated) culverts  Use of infiltration bunds for groundwater recharge along		0	•				0		0														
Management  3. Water and Land	3.3. Groundwater management		roadsides			•	0		0	0		0														
Management	3.3. Groundwater management		Roadside spring protection and management		0	•			0			0														
3. Water and Land Management	3.3. Groundwater management		Use of water harvesting measures upstream and downstream of the road			•	0		0	0		0														
3. Water and Land Management	3.4. Reduced waterlogging and protecting natural channels		Adequate cross drainage to prevent water concentration and adjusted bridge sills		0	•				0																
3. Water and Land Management	3.5. Preventing landslides		Catchment management in sensitive and unstable areas			•							0	0	0											
3. Water and Land Management	3.6. Erosion and Gully control		Erosion control options for soil and water protection		0	•			0																	
3. Water and Land Management	3.7. Avoiding sand dune movement		Disconnecting road alignment from prevailing wind direction			•							0	0												
3. Water and Land Management	3.7. Avoiding sand dune movement		Windbreak and soil stabilization planting		0	•	0	0	0								_									
4. Reducing Pollution	4.1. Consider road construction materials	4.1.2	Additives used in road materials as pollutants				•				0															
4. Reducing Pollution	4.3. Road maintenance	4.3.1	Maintaining abrasion and erosion resistance in roads and roadside structures				•																			
4. Reducing Pollution	4.4. Prioritize road drainage	4.4.1	Avoid disposal of untreated road run-off near sensitive areas to prevent potential contamination				•																			
4. Reducing Pollution	4.4. Prioritize road drainage	4.4.3	Treat road effluent from controlled concentrated disposal systems through detention ponds, wet ponds, constructed wetlands, infiltration trenches, sand filters or grassed				•		0																	
4. Reducing Pollution	4.6. Capture and remove pollutants	4.6.1	Planting roadside grass buffer filter strips to absorb dispersed road runoff pollutants				•		0																	
4. Reducing Pollution	4.6. Capture and remove pollutants	4.6.2	Planting roadside vegetation to intercept road dust and ambient pollutants taking into account distance from the	0			•		0																	
4. Reducing Pollution	4.6. Capture and remove pollutants	4.6.3	road and aerodynamics Using special accumulator plants for bioremediation of soils along roads				•																			
5. Improving Quality of life	5.2. Beautification	5.2.1	Scenic roads and roadside facilities					•																		
5. Improving Quality of life	5.3. Noise control	5.3.1	Reducing noise from roads					•																		
5. Improving Quality of life	5.4. Temperature Control	5.4.2	Separating non-motorized bicycle and pedestrian lanes from vehicles	1				•				0														
5. Improving Quality of life	5.5. Traffic Safety	5.5.1	Controlling speed for traffic and pedestrian safety					•																		
6. Preserving Biodiversity	6.1. Protect and harness invertebrea biodiversity	6.1.1	Habitat management						•				0	0	0											
6. Preserving Biodiversity	6.1. Protect and harness invertebrea biodiversity	6.1.2	Developing water points (with road water harvesting) away from roads						•						0											
6. Preserving Biodiversity	6.1. Protect and harness invertebrea biodiversity	6.1.3	Controlling of invasive plant species					0							0											
6. Preserving Biodiversity	6.1. Protect and harness invertebrea biodiversity	6.1.4	Native plant selection (habitat alteration)	0		0	0		•					0												

6. Preserving Biodiversity	6.1. Protect and harness invertebrea biodiversity	6.1.7	Safe passages (culverts, climate tunnels)		0				•			0		0					
6. Preserving Biodiversity	6.1. Protect and harness invertebrea biodiversity	6.1.9	Creating biodiversity corridors by linking road side tree planting with perpendicular hedges				0		•										
6. Preserving Biodiversity	6.2. Protect and harness vertebrea biodiversity	6.2.1	Fencing of sensitive areas						•				0	0					
6. Preserving Biodiversity	6.2. Protect and harness vertebrea biodiversity	6.2.2	Safe passages (culverts, ecoducts, wildlife overpasses and underpasses)											0					
6. Preserving Biodiversity	6.2. Protect and harness vertebrea biodiversity	6.2.7	Viaducts for avoiding or crossing sensitive areas																
6. Preserving Biodiversity	6.2. Protect and harness vertebrea biodiversity	6.2.8	Defragmentation-reestablishing wildlife migration corridors						•										
6. Preserving Biodiversity	6.3. Protect aquatic ecosystems	6.3.1	Culvert design for fish passage/AOP/Stream Stimulation			0			•										
6. Preserving Biodiversity	6.3. Protect aquatic ecosystems	6.3.2	Avoid alteration and sedimentation of streams that affect fishing grounds				0		•										
6. Preserving Biodiversity	6.5 Digital tools for biodiversity preservation	6.5.1	Biological constraints chart – mapping biodiversity	0				0	•										
7. Disaster Preparedness	7.1. Flood mitigation by road network	7.1.1	Flood compartmentalization by roads							•									
7. Disaster Preparedness	7.1. Flood mitigation by road network	7.1.2	Roads-cum-flood embankments		0					•									
7. Disaster Preparedness	7.2. Enhancing flood resilience through road networks	7.2.1	Elevated roads and bridges (adjusted to flood levels)							•									
7. Disaster Preparedness	7.2. Enhancing flood resilience through road networks	7.2.2	Overflow roads													П			
7. Disaster Preparedness	7.3. Road network capacity to deal with emergencies	7.3.1	Road network capacity to deal with emergencies							•									
7. Disaster Preparedness	7.3. Road network capacity to deal with emergencies	7.3.2	Information Technology (IT) and early warning systems		0						0					ı			
7. Disaster Preparedness	7.4. Evacuation and access plans	7.4.1	Emergency communications (signage and messaging)							•									
7. Disaster Preparedness	7.4. Evacuation and access plans	7.4.2	Emergency traffic management							•									
7. Disaster Preparedness	7.4. Evacuation and access plans	7.4.3	Emergency Disaster Procedure and Preparedness Planning							•									
7. Disaster Preparedness	7.5. Fire prevention	7.5.1	Access for fire and emergency equipment & fire breaks							•									
7. Disaster Preparedness	7.5. Fire prevention	7.5.2	Fire break along roads				0	0	0	•			0						
7. Disaster Preparedness	7.5. Fire prevention	7.5.3	Use of fire resistance material			0	0			•			0						
8. Sustainable Materials Sourcing and Construction Practices	8.1. Design	8.1.1	Economical design							•									
8. Sustainable Materials Sourcing and Construction Practices	8.1. Design	8.1.5	Dig Once for Road Transport	•			0					0		0					
8. Sustainable Materials Sourcing and Construction Practices	8.2. Material choice	8.2.1	Efficient life-cycle use of material				0	0	0	•									
Sustainable Materials     Sourcing and Construction     Practices	8.2. Material choice	8.2.2	Safe use of recycled material	0			0			•							_		
8. Sustainable Materials Sourcing and Construction Practices	8.3. Sourcing	8.3.1	Reduce environmental costs of extraction and production: avoid sensitive areas				0		0	•									
8. Sustainable Materials Sourcing and Construction Practices	8.3. Sourcing	8.3.2	Reduce haulage costs	0						•									
8. Sustainable Materials Sourcing and Construction Practices	8.3. Sourcing	8.3.4	Repurposing of extraction sites (borrow pits, stone/clay removal) flat land-play fields							•									
8. Sustainable Materials Sourcing and Construction Practices	8.4. Operation and Maintenance – tailored to Small Island material options	8.4.1	End-of-life strategies for roads					0		•									
8. Sustainable Materials Sourcing and Construction Practices	8.4. Operation and Maintenance – tailored to Small Island material options	8.4.2	Environmental analysis and reclamation plan for pits and quarries							•									
		9.2.4	Community engagement for planting/maintaining roadside trees								•								
9. Fostering Inclusive Growt	h 9.3. Promoting road-side business	9.3.2	Regulating roadside vendors					0			•		0						
9. Fostering Inclusive Growt	h 9.4. Ensuring last mile access	9.4.1	Motor cycle and bicycle paths					0			•	0	0						
9. Fostering Inclusive Growt	h 9.5. Gender and Indigenous population considerations	9.5.1	Promoting gender equality and indigenous populations through road and transport projects					0			•	0	0						